

TECHNICAL WORK MAY NOT BEGIN PRIOR TO CO APPROVAL

NASA/GODDARD SPACE FLIGHT CENTER

REQUEST FOR TASK PLAN / TASK ORDER

CONTRACTOR	CONTRACT NO./TASK NO.	JOB ORDER NUMBER	APPROP. FY
QSS Group, Inc.	NAS5- 99124 TASK NO. 232 AMENDMENT	564-860-10-40-89	00

TASK TITLE: (NTE 80 characters; include Project name)

IRAC Flight Warm Electronics Assembly (WEA) Integration and Test

APPROVALS: (Type or print name and sign)

ASSISTANT TECHNICAL REPRESENTATIVE (OR TASK MONITOR)

Jose M. Florez

DATE

3/20/00

ORG
CODE

564

MAIL
CODE

564

PHONE

301-286-2789

BRANCH HEAD

Robert L. Kasa

DATE

3/20/00

CODE

564

PHONE

301-286-8043

CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)

Robert S. Lehair, Jr.

DATE

3/22/00

CODE

560

PHONE

301-286-6588

FLIGHT HARDWARE, CRITICAL GSE OR SOFTWARE?

(IF YES, NEED CODE 303 CONCURRENCE NEXT BLOCK)

[] NO [X] YES

CONTRACTING OFFICER'S QUALITY REP.

see for L. Moore per email
Larry Moore

DESIGNATED FAM:

Ted Ackerson

The contractor shall identify and explain the reason for any deviations, exceptions, or conditional assumptions taken with respect to this Task Order or to any of the technical requirements of the Task Order Statement of Work and related specifications. The contractor shall complete and submit the required Reps and Certs.

(To be completed by Contracting Officer)

C.O. Requested Quote on:

Date: April 8 2000

Contractor will develop specification or statement of work under this task for a future procurement. [X] NO [] YES

Flight hardware will be shipped to GSFC for testing prior to final delivery. [] NO [] YES [X] N/A

Government Furnished Property/Facilities: [X] NO [] YES -- SEE LIST OF GFP (offsite only) / FACILITIES (onsite only)

Onsite Performance: [] NO [X] YES If yes: [X] TOTAL [] PARTIAL

If partial, indicate onsite work in SOW by asterisk (*)

Surveillance Plan Attached: [X] NO [] YES

Highlighted Contract Clauses: (to be completed by Contracting Officer)

Per Clause H.14, Task Ordering Procedure, subparagraph (f), the effective date of this task order shall be April 1, 2000.

INCENTIVE FEE STRUCTURE (check one)

(See Contract NAS5-99124, Attachment K, Incentive Fee Plan)

	No. 1	No. 2	No. 3	X No. 4	No. 5
Cost	10%	50%	25%	25%	%
Schedule	15%	25%	25%	50%	%
Technical	75%	25%	50%	25%	%

(To be completed by Contracting Officer)

The target cost of this task order is \$ 131,225.

The target fee of this task order is \$ 8,468.

The total target cost and target fee of this task order as contemplated by the Incentive Fee clause of this contract is \$ 139,693.

The maximum fee is \$ 12,376.

The minimum fee is \$0.

AUTHORIZED SIGNATURE:

THIS TASK ASSIGNMENT IS ISSUED ACCORDING TO THE CONTRACT CLAUSE "TASK ASSIGNMENTS AND REPORTS"



SIGNATURE OF CONTRACTING OFFICER

4/28/00

DATE

ELIZABETH J. AUSTIN
CONTRACTING OFFICER

TYPED NAME OF CONTRACTING OFFICER

CONTRACTOR'S ACCEPTANCE:

AUTHORIZED SIGNATURE

DATE

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QSS Group, Inc.

NAS5-

99124

TASK NO.

232

AMENDMENT

Applicable paragraphs from contract Statement of Work:

STATEMENT OF WORK: (Continue on blank paper if additional space is required)

This task is a follow-on to Task 58 under this contract.

See page 3.

PERFORMANCE SPECIFICATIONS:

See page 3.

APPLICABLE DOCUMENTS:

See page 3.

TASK END DATE: 7/31/00

MILESTONES/DELIVERABLES AND DATES:

See page 3.

PERFORMANCE STANDARDS:

Schedule: On-time delivery of flight WEA and acceptance data package

Technical: ATR's acceptance of the above

FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):

Jose M. Florez, building 11, E224

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REQUEST FOR TASK PLAN / TASK ORDER

Contract NAS5-99124

Task#: **232**

STATEMENT OF WORK:

**Infrared Array Camera (IRAC) Instrument
Flight Warm Electronics Assembly (WEA) SOW
March 20, 2000**

1.0 SCOPE

This task provides continuation of support to the IRAC Warm Electronics Assembly (WEA) priorly covered under Task 58.

The primary requirement of this task is to provide integration and test support for the Warm Electronics Assembly (WEA) during Environmental Testing at GSFC, and Post-delivery at Ball Aerospace.

To fulfill this requirement the contractor shall provide onsite electrical assembly, circuit design, test, and integration services necessary to modify the design, rework, test and deliver the WEA. The contractor shall provide flight parts storage at their location.

This task also requires flight firmware consultation and support as needed to test, modify, and evaluate changes to the flight code resulting from new requirements or problems discovered during testing.

1.1.0 REQUIREMENTS

1.1.1 DESIGN

Electrical - The contractor shall provide electrical circuit support services to the IRAC Electronics Product Team Lead for all elements of the WEA for the remainder of the project as needed.

1.2.0 QUANTITIES

The contractor provide support for one (1) Flight Model WEA, one (1) Spare Flight Model WEA one board of each type, one Bench Test Equipment (BTE) Spacecraft Simulator (software services only), one BTE Focal Plane Electronics (FPE) Simulator, and one BTE Command and Telemetry Simulator.

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Task#: **232**

1.3.0 TESTING

1.3.1 Electrical Testing

The contractor shall provide onsite assembly and electrical test services during the IRAC electronics test phase at GSFC. The contractor shall provide electrical test support services at Ball Aerospace after delivery of the IRAC instrument as needed.

1.3.2 Environmental Testing

Environmental testing shall be performed by the GSFC.

1.4.0 APPLICABLE DOCUMENTS (Partial List)

- 1.4.1 GSFC Engineering Drawing Standards Manual, Doc. No. X673-64-IE
- 1.4.2 Applicable GSFC Approved Contractor Procedures
- 1.4.3 IRAC Approved Parts List
- 1.4.4 NASA Workmanship Standards NASA-STD 8739.3 thru NASA-STD 8739.7, NAS5300(3J-1) and NAS5300(3M).
- 1.4.5 System and subsystem requirements identified in the Critical Design Review (CDR) Package
- 1.4.6 IRAC and SIRTf Requirements Documents listed on IRAC WEB Page (<http://instra1.gsfc.nasa.gov:9001>)

1.5.0 STATUS REPORTING REQUIREMENTS

The contractor is required to conduct weekly meetings with the task Technical Monitor and all other relevant GSFC and subcontractor personnel. This meeting shall cover the status of all ongoing activities related to the task including schedule, cost and potential or unresolved problem areas.

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1.6.0 QUALITY REQUIREMENTS

QA Requirement for flight hardware:

Appropriate records must be kept at all times with all flight hardware. Work Order Assignments (WOA) shall be issued prior to the performance of flight related work. Documentation shall be kept in accordance with the Configuration Management (CM) system established by the IRAC Project. All fabricated hardware shall meet the requirements of the NASA workmanship Standards in Paragraph 1.4.4.

QA Requirement for non-flight hardware:

Government inspection is not required for non-flight hardware. Quality Assurance workmanship inspections of all non-flight hardware shall be performed by the contractor to best commercial practice.

1.7.0 GOVERNMENT FURNISHED EQUIPMENT (GFE)

1.7.1 Applicable documents as requested

1.7.2 Computers for BTE

1.7.3 Equipment, Material, Parts

The GSFC will provide Parts Lists of all parts to be provided.

1.8.0 DELIVERABLES

1.8.1 DESIGN DOCUMENTATION

A complete design package shall be delivered to the IRAC Configuration Manager for each element in the WEA. The package shall consist of the following:

Disk copy of final board and piece part application design drawings.

One hard copy of final board and piece part application design drawings.

Electronic and hard copy documentation of all analyses conducted and the results.

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Final End Item Acceptance Data Package including the as-built Configuration List, the as built Materials and Processes List, the Test Procedure, the WOA Logs and a list of any open items.

Performance Assurance documentation as required.

1.8.2 HARDWARE

The contractor shall deliver to the Task Monitor according to Section 1.9.0:

- One (1) Flight WEA
- One (1) Spare Flight WEA with one board of each type

Any spare residual unused parts, hardware and equipment shall also be returned to the Task Monitor. All deliverables related to this task shall be made in person to the Task Monitor or his duly appointed representative. This shall be the method of delivery unless explicitly otherwise specified by the Task Monitor.

1.8.3 PARTS

All flight parts will be GFE.

1.9.0 DELIVERABLES SCHEDULE

1.9.1 DESIGN DOCUMENTATION

A complete documentation package for each of the items identified in Section 1.9.2, as defined in Section 1.8.1, must be delivered to the Task Monitor at the time of final delivery of the Flight WEA to the Project.

1.9.2 HARDWARE

Deliverable

Flight Qualified WEA
 Spare Flight WEA with one board of each type
 Updated documentation package
 Residual Parts
 Progress Reports

May 15, 2000
 May 15, 2000
 June 15, 2000
 July 31, 2000
 Monthly, due the 15th of the month
 to the ATR